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TITLE: HEAT-RESISTANT POLYURETHANE RESIN

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N/A

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ABSTRACT:

PURPOSE: A rigid polyurethane resin excellent in heat resistance, prepared by reacting an alkylene oxide adduct of xylylenediamine alone or together with a different polyfunctional polyol, with an aromatic polyisocyanate compound.

CONSTITUTION: A polyol with an average OH value of  $300 \sim 1,000$ , represented by the formula (wherein R is an alkylene, k, l, m and n are each  $\geq 1$  and  $k+l+m+n=4 \sim 10$ ) is prepared by adding about  $4 \sim 10$  mol of an alkylene oxide to 1 mol of xylylenediamine. Then, this polyol or a mixture of above 20wt% this polyol with below 80wt% polyfunctional polyol with OH value of  $200 \sim 2,000$  (e.g., ethylene glycol, triethylene glycol) is reacted and cured with an aromatic polyisocyanate compound (e.g., 2,4-tolylene diisocyanate) to obtain the purpose heat-resistant polyurethane resin.

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# PATENT ABSTRACTS OF JAPAN

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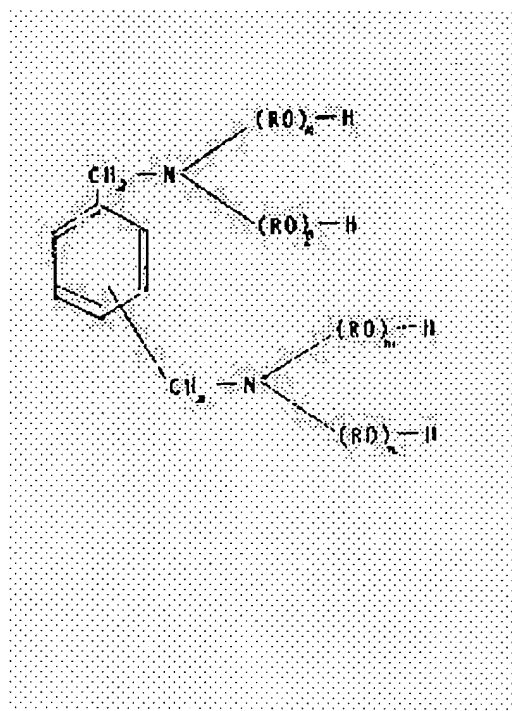
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## (54) HEAT-RESISTANT POLYURETHANE RESIN

### (57)Abstract:

**PURPOSE:** A rigid polyurethane resin excellent in heat resistance, prepared by reacting an alkylene oxide adduct of xylylenediamine alone or together with a different polyfunctional polyol, with an aromatic polyisocyanate compound.

**CONSTITUTION:** A polyol with an average OH value of 300W1,000, represented by the formula (wherein R is an alkylene, k, l, m and n are each  $\geq 1$  and  $k+l+m+n=4W10$ ) is prepared by adding about 4W10mol of an alkylene oxide to 1mol of xylylenediamine. Then, this polyol or a mixture of above 20wt% this polyol with below 80wt% polyfunctional polyol with OH value of 200W2,000 (e.g., ethylene glycol, triethylene glycol) is reacted and cured with an aromatic polyisocyanate compound (e.g., 2,4-tolylene diisocyanate) to obtain the purpose heat- resistant polyurethane resin.



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